

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1 & 2. (Cancelled)

3. (Currently Amended) A substrate for a liquid crystal device comprising:

a base; and

a light reflecting film formed ~~on~~ above said base,

wherein said light reflecting film has a pattern that provides light directivity and light scattering,

~~is formed by aligning at least one of a~~ said pattern is formed by aligning at least of a plurality of convexities and a plurality of concavities,

said convexities and or concavities are pyramid shape in plane section, and

~~said light reflecting film having a pattern that provides light directivity and light scattering, and~~

a spatial shape of said convexities or said concavities along one of two orthogonal axes that pass through said convexities or concavities is different from a spatial shape that extends along the other axis.

4. (Cancelled)

5. (Currently Amended) The substrate for a liquid crystal device according to Claim [[4]] 21, wherein one side of a surface area of said spatial shape is asymmetric with the other side.

6. (Currently Amended) The substrate for a liquid crystal device according to Claim [[4]] 21, wherein one angle of said spatial shape with respect to said base is asymmetric with another angle of said spatial shape with respect to said base.

7.-12. (Cancelled)

13. (Currently Amended) A method of manufacturing a substrate for a liquid crystal device comprising the steps of:

forming a ~~light reflecting film~~ an insulating layer on a surface of the base; and;
employing a mask to form at least one of a plurality of convexities and a plurality of concavities, said convexities ~~and~~or concavities are pyramid shape in plane section, on the surface of said ~~light reflecting film~~ insulating layer; and

forming a light reflecting film on said insulating layer;

wherein a shape of a mask pattern of said mask for said convexities or said concavities along one axis of two orthogonal axes that pass through said convexities or concavities is different from the shape that extends along the other axis.

14. – 16. (Cancelled)

17. (Previously Presented) A liquid crystal display device comprising:
a substrate for a liquid crystal device as set forth in claim 3; and
a liquid crystal sandwiched between the pair of substrates.

18. (Previously Presented) A method for manufacturing a liquid crystal display device comprising the steps of:
manufacturing a substrate for a liquid crystal device as set forth in claim 13.

19. (Currently Amended) An electronic apparatus comprising:
a liquid crystal display device; and
a case accommodating said liquid crystal device,
said liquid crystal device comprising:
a liquid crystal display device as set forth in claim 17.

20. (Currently Amended) A substrate for a liquid crystal device, comprising:
a base; and
a light reflecting film formed above on said base,
wherein said light reflecting film has a pattern that provides light directivity and light scattering,
said pattern is formed by aligning at least one of a plurality of convexities and a plurality of concavities,
said convexities and or concavities are teardrop shape in plane section; and

~~said light reflecting film having a pattern that provides light directivity and light scattering, and~~

a spatial shape of said convexities or said concavities along one of two orthogonal axes that pass through said convexities or concavities is different from a spatial shape that extends along the other axis.

21. (Currently Amended) A substrate for a liquid crystal device, comprising:

a base; and

a light reflecting film formed ~~on~~ above said base;;

wherein said light reflecting film has ~~having~~ a pattern that provides light directivity and light scattering;;

said pattern is formed by aligning at least one of a plurality of convexities and a plurality of concavities; and,

said convexities and or concavities are pyramid shape in plane section, and

wherein one side of a spatial shape of said convexities or said concavities bisected by at least one of the two orthogonal axes that pass through said convexities or concavities is asymmetric with the other side thereof.

22. (Currently Amended) A substrate for a liquid crystal device, comprising:

a base; and

a light reflecting film formed ~~on~~ above said base;;

wherein said light reflecting film has ~~having~~ a pattern that provides light directivity and light scattering;;

said pattern is formed by aligning at least one of a plurality of convexities and a plurality of concavities; and,

said convexities and or concavities are teardrop shape in plane section; and

wherein one side of a spatial shape of said convexities or said concavities are bisected by at least one of the two orthogonal axes that pass through said convexities or concavities is asymmetric with the other side thereof.

23. (Currently Amended) A substrate for a liquid crystal device that is one of a pair of substrates sandwiching a liquid crystal and that is positioned opposite from a viewing-side substrate, comprising a base and a light reflecting film formed ~~on~~ above said base; and

wherein at least one of a plurality of convexities and a plurality of concavities are formed and arranged in a reflecting pattern on said surface of said light reflecting film; and

said convexities and or concavities are pyramid shape in plane section; and

with respect to an amount of light reflected on said reflecting pattern, a profile of the amount of light along one of two orthogonal axes that pass through said convexities or said valleys is different from the profile of the amount of light along the other of the two orthogonal axes.

24. (Currently Amended) A substrate for a liquid crystal device that is one of a pair of substrates sandwiching a liquid crystal and that is positioned opposite from a viewing-side substrate, comprising a base and a light reflecting film formed ~~on~~ above said base;

wherein at least one of a plurality of convexities and a plurality of concavities are formed and arranged in a reflecting pattern on said surface of said light reflecting film; and
said convexities and or concavities are teardrop shape in plane section; and
with respect to an amount of light reflected on said reflection pattern, a profile of the amount of light along one of two orthogonal axes that pass through said convexities or said concavities is different from the profile of the amount of light along the other of the two orthogonal axes.

25. (Currently Amended) A method of manufacturing a substrate for a liquid crystal device comprising the steps of:

forming an light reflecting film insulating layer on a surface of the base; and
employing a mask to form at least one of a plurality of convexities and a plurality of concavities, said convexities and or concavities are teardrop shape in plane section on the surface of said light reflecting film insulating layer; and

forming a light reflecting film on the insulating layer;

wherein a shape of a mask pattern of said mask for said convexities or said concavities along one axis of two orthogonal axes that pass through said convexities or concavities is different from the shape that extends along the other axis.

26. (Currently Amended) A method of manufacturing a substrate for a liquid crystal device comprising the steps of:

forming an light reflecting film insulating layer on the surface of a base; and
employing a mask to form at least one of a plurality of convexities and a plurality

of concavities, said convexities and or concavities are pyramid shape in plane section on a surface of said ~~light reflecting film~~ insulating layer; and

forming a light reflecting film on the insulating layer;

wherein a shape of one side of a mask pattern of said mask for said plurality of convexities or said plurality of concavities that is bisected by at least one of two orthogonal axes that pass through said convexities or concavities is asymmetric with the other side thereof.

27. (Currently Amended) A method of manufacturing a substrate for a liquid crystal device comprising the steps of:

~~forming an~~ light reflecting film insulating layer on the surface of a base; and

employing a mask to form at least one of a plurality of convexities and a plurality of concavities, said convexities and or concavities are teardrop shape in plane section on a surface of said ~~light reflecting film~~ insulating layer; and

forming a light reflecting film on said insulating layer;

wherein a shape of one side of a mask pattern of said mask for said plurality of convexities or said plurality of concavities that is bisected by at least one of two orthogonal axes that pass through said convexities or concavities is asymmetric with the other side thereof.

28. – 31. (Cancelled)

32. (Previously Presented) The substrate for a liquid crystal device according to Claim 23, wherein said profile of the amount of light along said one axis is peak shaped, and said profile of the amount of light along said other axis is a straight line.

33. (Previously Presented) The substrate for a liquid crystal device according to Claim 24, wherein said profile of the amount of light along said one axis is peak shaped, and said profile of the amount of light along said other axis is a straight line.

34. (Currently Amended) A liquid crystal display device comprising:
a substrate for a liquid crystal device as set forth in claim [[4]] 21; and
a liquid crystal sandwiched between the pair of substrates.

35. (Currently Amended) A liquid crystal display device comprising:
a substrate for a liquid crystal device as set forth in claim ~~11~~ 23; and
a liquid crystal sandwiched between the pair of substrates.

36. (Previously Presented) A liquid crystal display device comprising:
a substrate for a liquid crystal device as set forth in claim 20; and
a liquid crystal sandwiched between the pair of substrates.

37. (Currently Amended) A method for manufacturing a liquid crystal display device comprising the steps of:
manufacturing a substrate for a liquid crystal device as set forth in claim ~~14~~ 26.

38. (Previously Presented) A method for manufacturing a liquid crystal display device comprising the steps of:

manufacturing a substrate for a liquid crystal device as set forth in claim 25.

39. (NEW) The substrate for a liquid crystal device according to Claim 22, wherein one side of a surface area of said spatial shape is asymmetric with the other side.

40. (NEW) The substrate for a liquid crystal device according to claim 22, wherein one angle of said spatial shape with respect to said base is asymmetric with another angle of said spatial shape with respect to said base.

41. (NEW) A liquid crystal display device comprising:

a substrate for a liquid crystal device as set forth in claim 22; and
a liquid crystal sandwiched between the pair of substrates.

42. (NEW) A liquid crystal display device comprising:

a substrate for a liquid crystal device as set forth in claim 24; and
a liquid crystal sandwiched between the pair of substrates.

43. (NEW) A method for manufacturing a liquid crystal display device comprising the steps of:

manufacturing a substrate for a liquid crystal device as set forth in claim 27.

44. (NEW) An electronic apparatus comprising:
 - a liquid crystal display device;
 - a case accommodating said liquid crystal device,
 - said liquid crystal device comprising:
 - the liquid crystal display device as set forth in claim 36.